	The Files - RD-103, Task Order 8	26 November 1958	
25X1		DOE REVIEW COMPLETED	
	Joint Conference Report, AS-6		
	 On 19 November 1958 a joint conference to discuss the progress of the AS-6 progress concerning this project were: 	Participating in discussions	25X1
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	Lt. Col. Gaveren Anders Major George Ogburn - Al		
			25X1
25X1 25X1	2. reported that the	the field unit is the stage I had been selected as the	25X1 25X1 25X1
	outside packaging material. The use of classis being investigated in the field unit to insure higher reliability. The base station said, are completely on schedule. antenna array to be used with the AE-6 field and requested that arrangements be made for	lower the receiver drain and components,	25X1 25X1
25X1	by no later then Jamuary. He recommended from the Air Force or CAA to have a 513 receiver to a site about 1500 miles from few days observing signals from various types.	anded that permission be take a a los Angeles and spend a	25X1
25X1	the set up at The outcome of this to the antenna matching circuits, according to considered of the greatest priority to that we obtain frequency clearance on 6 frequency for these tests, in which would transmitter at Los Angeles.	ile also requested guencies in the 3 to 13 mc	25X1 25X1 25X1
25X1	3said that a prototype of completed and operational tests conducted. were encouraging and he felt that no seriou of activity. (Certain technical questions which his collector will have to work have	The results of those tests problem remained in his area regarding the environment in	053/4
25X1	of TSS who was out of town and what NOT RELEASABLE TO FOREIGN NATIONALS		25X1

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two units which we hope to install in the fall of 1959 have been tentatively selected. He said that one site was a typically arctic climate with year-round permafrost, and extremely low air and ground temperatures. The other has permafrost for part of the year only, is damp, windy and rainy and has an average temperature of about 30° F. Detailed temperature profiles on each site will be furnished to the contractors as soon as they become available. ———————————————————————————————————	25X1
5. At this point no further policy discussions were held and	
ibr. I the project engineer	
for the AEC power supply progrem joined the meeting	25X1
develop a smitable power supply for the As-6. The	0EV4
is furnishing a thermoelectric generator	25X1
to if certain patent difficulties regarding the purchase	
order can be straightened out. He said that it was most important	
that he know the ground temperature as soon as possible and saked	
if it were feasible to bury the power supply at a depth greater than	
6" in order to attain a more constant environmental temperature. The	
most efficient form factor for his power supply he sind is a cube,	
and an 18" hole will have to be dug anyway in order to place the top	İ
of the supply 6" below the surface of the ground said	25X1
that another group within the Agency was investigating the possibility	
of making a hole in permafrost with chemical or explosive devices.	
said that because of the large amount of promethium 147	
which he now expected to use to meet our power requirements a possible	
radiation hazard existed with the power supply, he said however, that a few extra pounds of case material would reduce it substantially.	
6. Detailed discussions regarding the exact power requirements of the	
requirements of both the collector and transmitter appear to have	
been lowered, since the Helpar unit now meeds a basic 2 millimpere	And the second second
continuous drain instead of the 10 milliesperes originally alletted	, v v
it. has eliminated the crystal oven from the field unit and	
feels that it will have no continuous drain whatever since the	25X1
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	20/1



timer will apparently be wound during one-per-hour bursts of current.

7. At a conference hald at on 21 Hovember 25X1 the details of the circuitry which will join the _____ collector to the _____ transmitter were thoroughly discussed. _____ agreed 25X1 25X1 with an elect signal on a separate line, at least to provide _____ with an alert signal on a separate line, at least 80 milliseconds prior to the first clock pulse. This electing signal will be a negative going 10 VDC level change and will serve to ready the collector for an transmission. Its supply will be adequate to provide 15 me to close a relay in the provided by During a discussion of the CLEAR signal to be provided by 25X1 would furnish its own clock base station), it was decided that 25X1 pulses to clear its memory and that the CLEAR signal would consist merely of a change in DC level, similar to the elect signal but on a separate line. It was decided that the mit would be delivered with a five foot unterminated cable and that would select a multable water-proof connector for it. The mumber of vires in this cable was decided upon a listing of the cable functions is noted here for surposes of record: 8. + 7 VEC Alert lime 1. - 7 VDC Clock line 9. 2. 10. -14 VDC Imformation line Stop Line 11. Panic 4. 12. Reference Signal (if used) Clear line 13. Spare System ground 14. Spare + 14 VDC 15. Spare

25X1

OC-E/R+D-EP/WJS:mjr (3 Dec. 58)

cc: R+D Subject File

R+D Lab

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Monthly Report

TSS/APD R+D Chrono EP Chrono